

STATE WASTE DISCHARGE PERMIT

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office
3190 - 160th Avenue SE
Bellevue, WA 98008

In compliance with the provisions of the
State of Washington Water Pollution Control Law
chapter 90.48 Revised Code of Washington, as amended,
and
the Federal Water Pollution Control Act
(The Clean Water Act)
Title 33 United States Code, Section 1251 et seq.,
authorizes

PHOTO DYNAMICS
P.O. Box 3565
Silverdale, WA 98383

Facility Address:

9995 Silverdale Way NW #113
Silverdale, WA 98383
Kitsap County

Publicly Owned Treatment Works
(POTW) Receiving Discharge:

Central Kitsap Sewage Treatment Plant
Kitsap County Public Works and Utilities

Industry Type:

Photoprocessing

Facility Location:

Latitude: 47° 40' 00" N
Longitude: 122° 40' 03" W

SIC Code:

7384

Discharge Location Description:

Central Kitsap Sewage Treatment Plant:
Latitude: 47° 40' 35" N
Longitude: 122° 36' 05" W

to discharge wastewater in accordance with the Special and General Conditions which follow.

Kevin C. Fitzpatrick
Water Quality Section Manager
Northwest Regional Office
Washington State Department of Ecology

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SUMMARY OF PERMIT REPORT SUBMITTALS

Refer to the Special and General Conditions sections of this permit for unscheduled submittal requirements.

Permit Section	Submittal	Frequency	First Submittal Date
S3.A.	Discharge Monitoring Report	Quarterly	January 15, 2007
S7.	Update Solid Waste Control Plan	1/permit cycle	Within 180 days prior to permit expiration
G7.	Application for Permit Renewal	1/permit cycle	At least 60 days before permit expiration

SPECIAL CONDITIONS

S1. DISCHARGE LIMITATIONS

All discharges and activities authorized by this permit shall be consistent with the terms and conditions of this permit. The discharge of any pollutant more frequently than, or at a concentration in excess of, that authorized by this permit shall constitute a violation of the terms and conditions of this permit.

Beginning on the effective date and lasting through the expiration date of this permit, the Permittee is authorized to discharge treated wastewater to Central Kitsap Sewage Treatment Plant (also referred to as POTW in this permit) subject to the following limitations:

EFFLUENT LIMITATIONS	
Parameter	Maximum Daily ^a
Flow	500 gpd
pH	6 to 10 s.u.
Silver	2 mg/L

^a The maximum daily effluent limitation is defined as the highest allowable daily discharge. The daily discharge means the discharge of a pollutant measured during a calendar day.

S2. MONITORING REQUIREMENTS

A. Wastewater Monitoring

The Permittee shall monitor the treated wastewater according to the following schedule:

Parameter	Units	Sample Point ¹	Sampling Frequency	Sample Type
Flow	gpd	Final effluent	Daily ²	Calculated
pH	s.u.	Final effluent	Daily ²	In-house pH paper or meter
Silver	mg/L (ppm)	Final effluent	Quarterly ²	Grab

S2. MONITORING REQUIREMENTS (continued)

¹ The final effluent sample point shall be after the silver recovery unit and prior to actual discharge or mixing with other flows.

² pH and silver shall be monitored daily in-house using pH paper (or a pH meter), and silver test paper, respectively. The results shall be recorded in a logbook. Flow shall be recorded daily in a logbook. Quarterly sampling for pH and silver shall be conducted by an accredited laboratory using EPA Method 150.1, and 200.7, respectively. The laboratory analytical results shall be summarized on a Discharge Monitoring Report (DMR) form and submitted to the Department on a quarterly basis as required under S3.A.

B. Sampling and Analytical Procedures

Samples and measurements taken to meet the requirements of this permit shall be representative of the volume and nature of the monitored parameters, including representative sampling of any unusual discharge or discharge condition, including bypasses, upsets, and maintenance-related conditions affecting effluent quality.

Groundwater sampling shall conform to the latest protocols in the *Implementation Guidance for the Ground Water Quality Standards* (Ecology, 1996).

Sampling and analytical methods used to meet the water and wastewater monitoring requirements specified in this permit shall conform to the latest revision of the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 CFR Part 136 or to the latest revision of *Standard Methods for the Examination of Water and Wastewater* (APHA), unless otherwise specified in this permit or approved in writing by the Department of Ecology (Department).

C. Laboratory Accreditation

All monitoring data shall be prepared by a laboratory registered or accredited under the provisions of, *Accreditation of Environmental Laboratories*, chapter 173-50 WAC. Flow, temperature, settleable solids, conductivity, and internal process control parameters are exempt from this requirement.

S3. REPORTING AND RECORD KEEPING REQUIREMENTS

The falsification of information submitted to the Department shall constitute a violation of the terms and conditions of this permit.

The Permittee shall monitor and report in accordance with the following conditions:

A. Reporting

The first monitoring period begins on the effective date of the permit. Monitoring results shall be submitted quarterly. Monitoring results obtained during the previous three (3) months shall be reported on the monthly forms as provided, or otherwise approved, by the Department, and be submitted no later than the 15th day of the month following the completed reporting period, unless otherwise specified in this permit. Reports are due January 15, April 15, July 15, and October 15 of each year. The report shall be sent to the Department of Ecology, Northwest Regional Office, 3190 - 160th Avenue SE, Bellevue, WA, 98008.

Discharge Monitoring Report forms must be submitted quarterly whether or not the facility was discharging. If there was no discharge or the facility was not operating during a given monitoring period, the Permittee is required to submit the form as required with the words “no discharge” entered in place of the monitoring results.

B. Records Retention

The Permittee shall retain records of all monitoring information for a minimum of three (3) years. Such information shall include all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by the Director.

C. Recording of Results

For each measurement or sample taken, the Permittee shall record the following information: (1) the date, exact place, method, and time of sampling; (2) the individual who performed the sampling or measurement; (3) the dates the analyses were performed; (4) who performed the analyses; (5) the analytical techniques or methods used; and (6) the results of all analyses.

D. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by this permit using test procedures specified by Condition S2 of this permit, then the results of this monitoring shall be included in calculation and reporting of the data submitted in the Permittee's self-monitoring reports.

E. Noncompliance Notification

In the event the Permittee is unable to comply with any of the permit terms and conditions due to any cause, the Permittee shall:

1. Immediately take action to stop, contain, and clean up unauthorized discharges or otherwise stop the violation, and correct the problem.
2. Repeat sampling and analysis of any violation and submit the results to the Department within thirty (30) days after becoming aware of the violation.
3. Immediately notify the Department and the local sewage treatment plant manager of the failure to comply.
4. Submit a detailed, written report to the Department within thirty (30) days (five [5] days for upsets and bypasses), unless requested earlier by the Department. The report should describe the nature of the violation, corrective action taken and/or planned, steps to be taken to prevent a recurrence, results of the resampling, and any other pertinent information.

Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

F. Dangerous Waste Discharge Notification

The Permittee shall notify the POTW and the Department in writing of the intent to discharge into the POTW any substance designated as a dangerous waste in accordance with the provisions of WAC 173-303-070. This notification shall be made at least ninety (90) days prior to the date that discharge is proposed to be initiated.

G. Spill Notification

The Permittee shall notify the POTW immediately (as soon as discovered) of all discharges that could cause problems to the POTW, such as process spills and unauthorized discharges (including slug discharges).

H. Maintaining a Copy of This Permit

A copy of this permit shall be kept at the facility and be made available upon request to the Department's inspectors.

S4. OPERATION AND MAINTENANCE

The Permittee shall at all times be responsible for the proper operation and maintenance of the silver recovery unit or any facilities or systems of control installed to achieve compliance with the terms and conditions of the permit.

A. Operations and Maintenance Manual

The Permittee shall maintain a copy of the Operations and Maintenance (O&M) Manual for the Chemical Recovery Cartridges (CRCs) system used, and shall follow the manufacturer's recommendations as written in the O&M Manual to maintain the CRC's in proper working condition at all times.

B. Bypass Procedures

The Permittee shall immediately notify the Department and the receiving POTW of any spill, overflow, or bypass from any portion of the collection or treatment system.

The bypass of wastes from any portion of the treatment system is prohibited unless one of the following conditions (1, 2, or 3) applies:

1. Unavoidable Bypass—Bypass is unavoidable to prevent loss of life, personal injury, or severe property damage. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.

If the resulting bypass from any portion of the treatment system results in noncompliance with this permit, the Permittee shall notify the Department and the receiving POTW in accordance with Condition S3.E "Noncompliance Notification."

2. Anticipated Bypass That has the Potential to Violate Permit Limits or Conditions—Bypass is authorized by an administrative order issued by the Department. The Permittee shall apply to the Department for the administrative order and submit written notice to the POTW at least thirty (30) days before the planned date of bypass. The written submission shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass. The Department will consider the following prior to issuing an administrative order:
 - a. If the bypass is necessary to perform construction or maintenance-related activities essential to meet the requirements of the permit.

S4. OPERATIONS AND MAINTENANCE: (continued)

- b. If there are feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, maintenance during normal periods of equipment down time, or transport of untreated wastes to another treatment facility.
- c. If the bypass is planned and scheduled to minimize adverse effects on the public and the environment.

After consideration of the above and the adverse effects of the proposed bypass and any other relevant factors, the Department will approve or deny the request. The public shall be notified and given an opportunity to comment on bypass incidents of significant duration, to the extent feasible. Approval of a request to bypass will be by administrative order issued by the Department under RCW 90.48.120.

- 3. Bypass for Essential Maintenance Without the Potential to Cause Violation of Permit Limits or Conditions—Bypass is authorized if it is for essential maintenance and does not have the potential to cause violations of limitations or other conditions of the permit, a violation of a pretreatment standard or requirement, or adversely impact public health as determined by the Department prior to the bypass.

C. Best Management Practices

- 1. Used C-41 bleach, fixer, and stabilizer shall not be discharged directly into a sanitary sewer without providing treatment. Spent developer is not permitted to be discharged directly into the sanitary sewer if it contains a silver concentration above the effluent limit (2 ppm).
- 2. Unused or past shelf life developer shall not be disposed of into the sanitary sewer unless it is approved by both the Department and Central Kitsap Sewage Treatment Plant.
- 3. The Permittee shall avoid putting the developer into silver-bearing wastes when using Chemical Recovery Cartridges (CRCs) for silver recovery. Developer can plug CRCs, causing a dangerous pressure buildup.
- 4. The Permittee shall use developer solutions that contain less than one percent hydroquinone.

S4. OPERATIONS AND MAINTENANCE: (continued)

5. No system cleaner that contains dichromate compound shall be used. All spilled materials shall be cleaned up properly (that is, with absorbent rags) and immediately, and shall not be discharged into the sanitary sewer without approval from the Department or the Central Kitsap Sewage Treatment Plant.
6. All silver-bearing wastes shall be combined before treatment. Washless stabilizers and C-41 bleach shall be added to spent fixer and run through CRCs as a single batch.
7. A sample valve shall be installed between canisters. This valve shall be used to take samples of the effluent from the first canister. The Permittee shall use silver test papers or test kit to check the sample to see when the first canister is spent. When it is necessary to rotate the canisters, the second canister shall be placed first in line and a new, second canister shall be added. In addition, the tubing between canisters shall be visually inspected daily for the color of the solution flowing through. If the solution color is brown, then the first canister is either spent or not working properly.
8. The Permittee shall monitor the flow of used solutions into the canisters. A metered pump system or a restricted gravity feed system shall be used to monitor flow rate at the manufacturers' recommended rates, usually between one and three gallons per hour.
9. A maintenance/changeover log shall be kept. The Permittee shall perform regular maintenance as recommended in the manufacturer's instruction manual.
10. CRCs shall be filled with water before initially putting them into service. This will extend the life of canisters by preventing the steel wool from dissolving as they fill with fixer.

S5. PROHIBITED DISCHARGES

The Permittee shall comply with these General and Specific Prohibitions.

A. General Prohibitions

The Permittee shall not introduce into the POTW pollutant(s) which cause pass-through or interference.

S5. PROHIBITED DISCHARGES: (continued)

B. Specific Prohibitions

In addition, the following shall not be introduced into the POTW:

1. Pollutants which create a fire or explosion hazard in the POTW, including, but not limited to, waste streams with a closed cup flashpoint of less than 60°C (140°F) using the test methods specified in 40 CFR 261.21.
2. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in interference.
3. Any pollutant, including oxygen-demanding pollutants (BOD, etc.), released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW.
4. Heat in amounts which will inhibit biological activity in the POTW resulting in interference, but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds 40°C (104°F) unless the approval authority, upon request of the POTW, approves alternative temperature limits.
5. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass-through.
6. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems.
7. Any trucked or hauled pollutants, except at discharge points designated by the POTW.

C. Prohibited Unless Approved

1. Any of the following discharges are prohibited unless approved by the Department under extraordinary circumstances (such as a lack of direct discharge alternatives due to combined sewer service or a need to augment sewage flows due to septic conditions):
 - a. Noncontact cooling water in significant volumes.
 - b. Storm water and other direct inflow sources.

S5. PROHIBITED DISCHARGES: (continued)

- c. Waste waters significantly affecting system hydraulic loading, which do not require treatment or would not be afforded a significant degree of treatment by the system.
2. Unless specifically authorized in this permit, the discharge of dangerous wastes as defined in chapter 173-303 WAC, is prohibited.

S6. DILUTION PROHIBITED

The Permittee shall not dilute the wastewater discharge with storm water or increase the use of potable water, process water, noncontact cooling water, or, in any way, attempt to dilute an effluent as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.

S7. SOLID WASTE DISPOSAL

A. Solid Waste Handling

The Permittee shall handle and dispose of all solid waste material in such a manner as to prevent its entry into state ground water, surface water, or a POTW.

B. Solid Waste Control Plan

The Permittee shall update the existing solid waste control plan as often as necessary and as changes are made to existing solid waste management practices on-site. This plan shall include all solid wastes with the exception of those solid wastes regulated by chapter 173-303 WAC (Dangerous Waste Regulations). The plan shall include, at a minimum, a description, source, generation rate, and disposal methods of these solid wastes. This plan shall not be at variance with any approved local solid waste management plan. Any proposed revision or modification of the solid waste handling plan must be submitted to the Department. The Permittee shall comply with the plan and any modifications thereof. The Permittee shall submit an update of the solid waste control plan with the application for permit renewal one hundred eighty (180) days prior to the expiration date of the permit.

S8. DUTY TO REAPPLY

The Permittee shall submit an application for renewal of this permit by October 27, 2010, to the Department of Ecology for permit renewal.

GENERAL CONDITIONS

G1. SIGNATORY REQUIREMENTS

All applications, reports, or information submitted to the Department shall be signed as follows:

- A. All permit applications shall be signed by either a principal executive officer or ranking elected official.
- B. All reports required by this permit and other information requested by the Department shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1. The authorization is made in writing by the person described above and is submitted to the Department at the time of authorization.
 - 2. The authorization specifies either a named individual or any individual occupying a named position.
- C. Changes to authorization. If an authorization under paragraph B.2, above, is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.

G2. RIGHT OF ENTRY

Representatives of the Department shall have the right to enter at all reasonable times in or upon any property, public or private, for the purpose of inspecting and investigating conditions relating to the pollution or the possible pollution of any waters of the state. Reasonable times shall include normal business hours; hours during which production, treatment, or discharge occurs; or times when the Department suspects a violation requiring immediate inspection. Representatives of the Department shall be allowed to have access to, and copy at reasonable cost, any records required to be kept under terms and conditions of the permit; to inspect any monitoring equipment or method required in the permit; and to sample the discharge, waste treatment processes, or internal waste streams.

G3. PERMIT ACTIONS

This permit shall be subject to modification, suspension, or termination, in whole or in part by the Department for any of the following causes:

- A. Violation of any permit term or condition;
- B. Obtaining a permit by misrepresentation or failure to disclose all relevant facts;

- C. A material change in quantity or type of waste disposal;
- D. A material change in the condition of the waters of the state; or
- E. Nonpayment of fees assessed pursuant to RCW 90.48.465.

The Department may also modify this permit, including the schedule of compliance or other conditions, if it determines good and valid cause exists, including promulgation or revisions of regulations or new information.

G4. REPORTING A CAUSE FOR MODIFICATION

The Permittee shall submit a new application, or a supplement to the previous application, along with required engineering plans and reports, whenever a new or increased discharge or change in the nature of the discharge is anticipated which is not specifically authorized by this permit. This application shall be submitted at least sixty (60) days prior to any proposed changes. Submission of this application does not relieve the Permittee of the duty to comply with the existing permit until it is modified or reissued.

G5. PLAN REVIEW REQUIRED

Prior to constructing or modifying any wastewater control facilities, an engineering report and detailed plans and specifications shall be submitted to the Department for approval in accordance with chapter 173-240 WAC. Engineering reports, plans, and specifications should be submitted at least one hundred eighty (180) days prior to the planned start of construction. Facilities shall be constructed and operated in accordance with the approved plans.

G6. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in the permit shall be construed as excusing the Permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

G7. PERMIT TRANSFER

This permit is automatically transferred to a new owner or operator if:

- A. A written agreement between the old and new owner or operator containing a specific date for transfer of permit responsibility, coverage, and liability is submitted to the Department.
- B. A copy of the permit is provided to the new owner and the receiving POTW is notified.
- C. The Department does not notify the Permittee of the need to modify the permit.

Unless this permit is automatically transferred according to Section A, above, this permit may be transferred only if it is modified to identify the new Permittee and to incorporate such other requirements as determined necessary by the Department.

G8. REDUCED PRODUCTION FOR COMPLIANCE

The Permittee shall control production or discharge to the extent necessary to maintain compliance with the terms and conditions of this permit upon reduction of efficiency, loss, or failure of its treatment facility until the treatment capacity is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power for the treatment facility is reduced, lost, or fails.

G9. REMOVED SUBSTANCES

Collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall not be resuspended or reintroduced to the effluent stream for discharge.

G10. PAYMENT OF FEES

The Permittee shall submit payment of fees associated with this permit as assessed by the Department. The Department may revoke this permit if the permit fees established under chapter 173-224 WAC are not paid.

G11. PENALTIES FOR VIOLATING PERMIT CONDITIONS

Any person who is found guilty of willfully violating the terms and conditions of this permit shall be deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit shall incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars for every such violation. Each and every such violation shall be a separate and distinct offense, and in case of a continuing violation, every day's continuance shall be and be deemed to be a separate and distinct violation.